

Reverse Osmosis Water Purification Unit (ROWPU)



MISSION

Provide potable water from any water source.

DESCRIPTION AND SPECIFICATIONS

The 3000-gallon per hour (gph) Reverse Osmosis Water Purification Unit (ROWPU) is the Army's primary water purifier at the echelon-above-corps level. The 3000 gph ROWPU will treat fresh, brackish, and seawater sources, as well as nuclear, biological, and chemical (NBC)-contaminated waters. The system is housed in 8 x 8 x 20 ft ISO containers, and mounted on an M871A2 trailer. It is hauled by an M932 truck, and is C-130 and C-141 air transportable. It is also marine-, rail-, and highway-transportable. The 3000 gph ROWPU can operate throughout the entire range of climates as defined in AR 70-38. The system can be set up by three soldiers and operated by one soldier.

The unit employs state-of-the-art reverse osmosis (RO) technology and can produce 3000 gph from a freshwater source and 2000 gph from a seawater source. The water produced meets tri-service drinking water standards. The Office of the Surgeon General has recommended RO technology as the preferred method of protecting the soldier from waterborne diseases. The 3000 gph ROWPU treatment consists of chemical addition, multimedia, and cartridge filtration, for removal of suspended solids; followed by RO treatment for removal of dissolved salts, metals, and organics. In cases of suspected NBC-source-water contamination, post-treatment using granular-activated carbon and ion exchange can be conducted. The system is powered by a 60 kW generator set.

FOREIGN COUNTERPART

Canada: ADROWPU

FOREIGN MILITARY SALES

None

PROGRAM STATUS

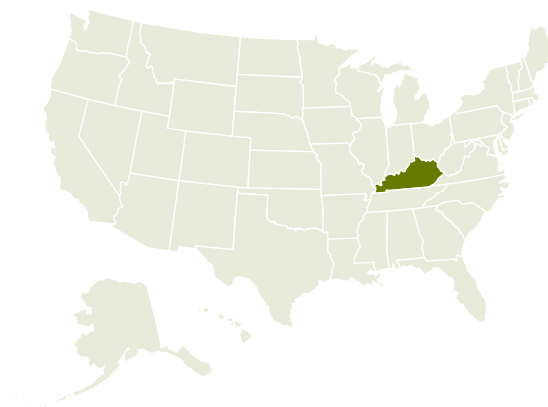
The ROWPU is in production.

PROJECTED ACTIVITIES

Continue fielding.

PRIME CONTRACTORS

Keco Industries (Florence, KY)



* See appendix for list of subcontractors

